

Yoshiki NAKAGAWA et al.

Docket No. 010903

a<sup>2</sup>

8. (Amended) The production method according to Claim 1,  
wherein the living radical polymerization is carried out in the manner of atom transfer radical  
polymerization.

11. (Amended) The production method according to Claim 8,  
wherein an organic halide having a functional group in addition to an initiation site or a  
halosulfonyl compound having a functional group in addition to an initiation site is used as an  
initiator.

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12. (Amended) The production method according to Claim 8,  
wherein an initiator having a plurality of initiation sites is used as an initiator.

13. (Amended) A vinyl polymer  
having a functional group at a molecular terminus  
and being obtainable by the production method according to Claim 1.

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17. (Amended) The polymer according to Claim 13  
which has a number average molecular weight of 500 to 100,000.

18. (Amended) The polymer according to Claim 13  
which has a weight average molecular weight (Mw)/ number average molecular weight (Mn)  
ratio (Mw/Mn) of less than 1.8 as determined by gel permeation chromatography.

a<sup>4</sup>  
CMT  
19. (Amended) A vinyl polymer  
having a crosslinking silyl group at a molecular chain terminus  
and being producible by reacting a vinyl polymer, which has an alkenyl group at a molecular  
chain terminus and is producible by the production method according to Claim 1, with a crosslinking  
silyl-containing hydrosilane compound.

20. (Amended) A vinyl polymer having a crosslinking silyl group at a molecular chain  
terminus  
and being producible by reacting a vinyl polymer, which has a hydroxyl or amino group at  
a molecular chain terminus and is producible by the production method according to Claim 1, with  
a crosslinking silyl-containing compound having a functional group capable of reacting with a  
hydroxyl or amino group.

21. (Amended) A curable composition comprising:  
(A) a vinyl polymer, which has an alkenyl group at a molecular chain terminus and is  
producible by the production method according to Claim 1,  
and (B) a compound having at least two hydrosilyl groups.

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22. (Amended) A curable composition comprising:

(A) a vinyl polymer, which has a hydroxyl or amino group at a molecular chain terminus and is producible by the production method according to Claim 1,

and (B) a compound having at least two functional groups capable of reacting with a hydroxyl or amino group.

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24. (Amended) A curable composition comprising:

a vinyl polymer, which has a crosslinking silyl group at a molecular chain terminus and is producible by the production method according to Claim 1.

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25. (Amended) A curable composition comprising:

(A) A vinyl polymer, which has an epoxy group at a molecular chain terminus and is producible by the production method according to Claim 1,

and (B) a curing agent for epoxy resins.

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30. (Amended) The production method according to Claim 26,

wherein a conjugated polyene structure in the conjugated polyene compound (II) is a conjugated diene structure.

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32. (Amended) The production method according to Claim 26,  
wherein the living radical polymerization is carried out in the manner of atom transfer radical  
polymerization.

35. (Amended) The production method according to Claim 32,  
wherein an organic halide having a functional group in addition to an initiation site or a  
halosulfonyl compound having a functional group in addition to an initiation site is used as an  
initiator.

Q<sup>8</sup>

36. (Amended) The production method according to Claim 32,  
wherein an initiator having a plurality of initiation sites is used as an initiator.

37. (Amended) The production method according to Claim 26,  
wherein the conjugated polyene compound (II) is added at the end point of the  
polymerization reaction.

38. (Amended) A vinyl polymer  
having a functional group at a molecular chain terminus  
and being obtainable by treating a vinyl polymer, which has the functional group at a  
molecular chain terminus and is obtainable by the production method according to Claim 26, with  
an alkaline compound to thereby eliminate the remaining terminal halogen.

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Q<sup>8</sup> 39. (Amended) A vinyl polymer  
having a functional group at a molecular chain terminus  
and being obtainable by the production method according to Claim 26.

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43. (Amended) The polymer according to Claim 39  
which has a number average molecular weight of 500 to 100,000.

Q<sup>9</sup> 44. (Amended) The polymer according to Claim 39  
which has a weight average molecular weight (Mw)/number average molecular weight (Mn)  
ratio (Mw/Mn) of less than 1.8 as determined by gel permeation chromatography.

45. (Amended) A vinyl polymer  
having a crosslinking silyl group at a molecular chain terminus and  
being producible by reacting a vinyl polymer, which has an alkenyl group at a molecular  
chain terminus and is producible by the production method according to Claim 26, with a  
crosslinking silyl-containing hydroxilane compound.

46. (Amended) A vinyl polymer  
having a crosslinking silyl group at a molecular chain terminus  
and being producible by reacting a vinyl polymer, which has a hydroxyl or amino group at  
a molecular chain terminus and is producible by the production method according to Claim 29, with

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a crosslinking silyl-containing compound having a functional group capable of reacting with a hydroxyl or amino group.

47. (Amended) A curable composition comprising:

(A) a vinyl polymer, which has an alkenyl group at a molecular chain terminus and is producible by the method according to Claim 26,

and (B) a compound having at least two hydrosilyl groups.

48. (Amended) A curable composition comprising:

(A) a vinyl polymer, which has a hydroxyl or amino group at a molecular chain terminus and is producible by the production method according to Claim 29,

and (B) a compound having at least two functional groups capable of reacting with a hydroxyl or amino group.

50. (Amended) A curable composition comprising:

a vinyl polymer, which has a crosslinking silyl group at a molecular chain terminus and is producible by the production method according to Claim 29.

51. (Amended) A curable composition comprising:

(A) a vinyl polymer, which has an epoxy group at a molecular chain terminus and is producible by the production method according to Claim 29,

and (B) a curing agent for epoxy resins.